



Analytical Laboratory

Analytical Lab
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Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J13040057

Project Name: MIAMI-FORT NPDES - MONTHLY

Customer Name(s): Craig Mercer, Mark J Harper, Todd Spade, Tara Thomas, Matthew Hoyt, Michael

Customer Address: 11021 BROWER RD.

NORTH BEND, OH 45052

Lab Contact: Mary Ann Ogle

Phone: 980-875-5274

Report Authorized By:
(Signature)

Date:

4/11/2013

Mary Ann Ogle

Program Comments:

Please contact the Program Manager (Mary Ann Ogle) with any questions regarding this report.

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted. Subcontracted data included on the Duke Certificate of Analysis is to be used as information only. Certified vendor results can be found in the subcontracted lab final report. Duke Energy Analytical Laboratory subcontracts analyses to other vendor laboratories that have been qualified by Duke Energy to perform these analyses except where noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2013007171	MIAMI-FORT	02-Apr-13 8:30 AM	Mark Harper	OUTFALL 002
2013007172	MIAMI-FORT	02-Apr-13 9:30 AM	Mark Harper	OUTFALL 608
2 Total Samples				

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).

☒ Yes

☐ No

All Results are less than the laboratory reporting limits.

☐ Yes

☒ No

All laboratory QA/QC requirements are acceptable.

☒ Yes

☐ No

Report Sections Included:

☒ Job Summary Report

☒ Sample Identification

☒ Technical Validation of Data Package

☒ Analytical Laboratory Certificate of Analysis

☐ Analytical Laboratory QC Report

☐ Sub-contracted Laboratory Results

☐ Customer Specific Data Sheets, Reports, & Documentation

☐ Customer Database Entries

☒ Chain of Custody

☐ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: Mary Ann Ogle

Date: 4/11/2013

Certificate of Laboratory Analysis

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This report shall not be reproduced, except in full.

Order # J13040057

Site: OUTFALL 002

Collection Date: 02-Apr-13 8:30 AM

Sample #: 2013007171

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>TOTAL DISSOLVED SOLIDS</u>								
TDS	720	mg/L		10	1	SM2540C	04/08/2013 12:43	TJA7067

Site: OUTFALL 608

Collection Date: 02-Apr-13 9:30 AM

Sample #: 2013007172

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	DF	Method	Analysis Date/Time	Analyst
<u>ALKALINITY (FIXED END POINT 4.5)</u>								
Alkalinity (mg/L CaCO ₃)	1500	mg/L (CaCO ₃)		0.1	1	SM2320B	04/04/2013 13:51	TJA7067
<u>INORGANIC IONS BY IC</u>								
Chloride	7700	mg/L		200	2000	EPA 300.0	04/08/2013 18:16	JAHERMA
Fluoride	12	mg/L		10	100	EPA 300.0	04/08/2013 18:16	JAHERMA
Sulfate	8600	mg/L		200	2000	EPA 300.0	04/08/2013 18:16	JAHERMA
<u>TOTAL METALS BY ICP</u>								
Boron (B)	398	mg/L	M4	1	20	EPA 200.7	04/05/2013 11:28	DJSULL1
Iron (Fe)	0.065	mg/L		0.01	1	EPA 200.7	04/05/2013 11:28	DJSULL1
Manganese (Mn)	2.74	mg/L		0.005	1	EPA 200.7	04/05/2013 11:28	DJSULL1
<u>TOTAL RECOVERABLE METALS BY ICP-MS</u>								
Arsenic (As)	< 20	ug/L		20	1	EPA 200.8	04/05/2013 14:02	KRICHA
Barium (Ba)	120	ug/L		20	1	EPA 200.8	04/05/2013 14:02	KRICHA
Cadmium (Cd)	< 20	ug/L		20	1	EPA 200.8	04/05/2013 14:02	KRICHA
Chromium (Cr)	< 20	ug/L		20	1	EPA 200.8	04/05/2013 14:02	KRICHA
Copper (Cu)	< 20	ug/L		20	1	EPA 200.8	04/05/2013 14:02	KRICHA
Lead (Pb)	< 20	ug/L		20	1	EPA 200.8	04/05/2013 14:02	KRICHA
Zinc (Zn)	< 20	ug/L		20	1	EPA 200.8	04/05/2013 14:02	KRICHA
<u>TOTAL DISSOLVED SOLIDS</u>								
TDS	31000	mg/L		200	1	SM2540C	04/08/2013 12:43	TJA7067
<u>TOTAL SUSPENDED SOLIDS</u>								
TSS	50	mg/L		5	1	SM2540D	04/04/2013 11:26	SWILLI3

Qualifiers:

M4 The spike recovery value was unusable since the analyte concentration in the sample was disproportionate to the spike level. The associated Laboratory Control Spike recovery was acceptable.

